



## FortiADC™

### Application Delivery Controllers



Fortinet FortiADC series of Application Delivery Controllers (ADC) optimize the availability, user experience, performance and scalability of Enterprise Application Delivery. The FortiADC family of physical and virtual appliances delivers fast, secure and intelligent acceleration and distribution of demanding applications in the enterprise.

### Enterprise Application Acceleration and Performance

FortiADC appliances utilize multi-core processor technology, combined with SSL offload to accelerate application performance. They are able to handle heavy Layer 4 through 7 traffic loads while delivering Latency Sensitive Applications for small, medium and large enterprises.

### Application Availability

FortiADC appliances deliver 99.999% uptime for enterprise application services with intelligent local and global server load balancing. The appliances provide application layer health check mechanisms for automatic failover of application services. This results in 24x7 application availability while reducing business continuity risks.

### Application Aware Intelligence and Control

FortiADC application-aware appliances eliminate performance bottlenecks, reduce application deployment complexity and seamless application integration. Fully aware of Layers 4 through 7 application traffic, connections, transactions, and content, they enable IT organizations to create event-driven policies for intelligent distribution of application traffic across web and application servers, and eliminates the need to replicate content across multiple servers. Content awareness is extended to the ability to create complex rules to dynamically rewrite content on the fly.

### SSL and Server Offloading

FortiADC offloads server-intensive SSL processing with support for 4096-bit keys, TCP connection management, data compression and HTTP request processing from servers. This speeds up response times, reduces load on the backend servers, allowing them to serve more users.

### Features and Benefits

- Intelligent traffic management for optimized application delivery and availability.
- Server offloading for improved application acceleration, scale and TCO.
- SSL offload for accelerating application performance.
- Comprehensive server load balancing for 99.999% application uptime.
- Global Server Load Balancing for geographic resilience.
- Browser based Web user interface for ease of management.
- Appliance and virtual machine form factor for greatest deployment flexibility.



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# FEATURES

## Application Availability

### Intelligent and easy to configure Layer 4/7 policy and group management

- Virtual service definition with inherited persistence, load balancing method and pool members
- Static, default and backup policies and groups
- Layer 4/7 application routing policy
- Layer 4/7 server persistence
- Application load balancing based on round robin, weighted round robin, least connections, shortest response
- Granular real server control including warm up rate limiting and maintenance mode with session ramp down

### Layer 4 Application Load Balancing

- TCP, UDP protocols supported
- Round robin, weighted round robin, least connections, shortest response
- Persistent IP, hash IP/port, hash header, persistent cookie, hash cookie
- RADIUS, DNS servers support

### Layer 7 Application Load Balancing

- HTTP/HTTPS/FTP/RADIUS supported
- L7 content switching
  - HTTP Host, HTTP Request URL, HTTP Referrer
  - Source IP Address
- URL redirect, HTTP request/response rewrite
- 403 Forbidden Rewrite
- Content rewriting

## Deployment Modes

- Configurable proxy (NAT) or transparent (direct) mode per VIP
- X-Forwarded for configuration in proxy mode Global Server Load Balancing (GSLB)
- Global datacenter DNS based failover of web applications
- Delivers local and global load balancing between multi-site SSL VPN deployments

## High Availability

- Active/Passive Failover

## Application Acceleration

### SSL Offloading and Acceleration

- Offloads HTTPS processing while securing sensitive data
- Full certificate management features

### TCP Acceleration

- 100x acceleration by off-loading TCP processing
- Connection pooling & multiplexing
- TCP buffering
- Client connection persistence

## Networking

- NAT for maximum flexibility and scalability
- VLAN and port trunking support

## IPv6 Support

- IPv6 routing
- IPv6 firewall rules

## Security

- IPv4 and 6 firewall rules
- Granular policy based connection limiting
- Syn Cookie Protection

## Management

- Single point of cluster management
- CLI Interface for configuration and monitoring
- Secure SSH remote network management
- Secure Web UI access
- SNMP with private MIBs with threshold based traps
- Syslog support
- Role-based administration
- In-build diagnostic utilities
- Real-time monitoring graphs



# SPECIFICATIONS

| FORTIADC-200D                     |  |
|-----------------------------------|--|
| Hardware Specifications           |  |
| Throughput                        | 2.7 Gbps                                     |
| Max Connections                   | 500,000                                      |
| Layer 7 RPS                       | 70,000                                       |
| SSL TPS                           | 4,000  |
| SSL Throughput                    | 500 Mbps                                     |
| Memory                            | 4 GB   |
| Network Interfaces                | 4 x 10/100/1000                              |
| Storage                           | 1 TB Hard Disk                               |
| Management                        | HTTPS, SSH CLI, Direct Console DB9 CLI, SNMP |
| Power Supply                      | Single                                       |
| Environment                       |  |
| Form Factor                       | 1U Appliance                                 |
| Input Voltage                     | 90 – 264V AC, 47 – 63 Hz                     |
| Typical Power Consumption (Watts) | 60W  |
| Max Current                       | 115V/6A, 230V/3A                             |
| Heat Dissipation                  | 205 BTU/h                                    |
| Operating Temperature             | 32 – 104 °F (0 – 40 °C)                      |
| Storage Temperature               | -13 – 158 °F (-25 – 70 °C)                   |
| Humidity                          | 5 to 95% non-condensing                      |
| Compliance                        |  |
| Regulatory Compliance             | FCC Part 15 Class A, C-Tick, VCCI, CE, UL/c  |
| Safety                            | CSA, C/US, CE, UL                            |
| Dimensions                        |  |
| Height x Width x Length (in)      | 1.75 x 17.05 x 13.86 in                      |
| Height x Width x Length (mm)      | 45 x 433 x 352 mm                            |
| Weight                            | 17.2 lbs (7.8 kg)                            |

# ORDER INFORMATION

| Product       | SKU      | Description  |
|---------------|----------|--|
| FortiADC-200D | FAD-200D | FortiADC-200D, 4 x 100/100/1000 ports, 1 x 1 TB Storage.   |
| FortiADC-VM01 | FAD-VM01 | FortiADC-VM software virtual appliance designed for VMware ESX and ESXi platforms. 1 x vCPU core, 2 GB RAM.  |
| FortiADC-VM02 | FAD-VM02 | FortiADC-VM software virtual appliance designed for VMware ESX and ESXi platforms. 2 x vCPU core, 4 GB RAM.  |
| FortiADC-VM04 | FAD-VM04 | FortiADC-VM software virtual appliance designed for VMware ESX and ESXi platforms. 4 x vCPU core, 8 GB RAM.  |
| FortiADC-VM08 | FAD-VM08 | FortiADC-VM software virtual appliance designed for VMware ESX and ESXi platforms. 8 x vCPU core, 16 GB RAM. |

|                                       | FORTIADC-VM01                                | FORTIADC-VM02      | FORTIADC-VM04      | FORTIADC-VM08      |
|---------------------------------------|--|--------------------|--------------------|--------------------|
| Hardware Specifications               |  |                    |                    |                    |
| Hypervisor Support                    | VMware ESXi / ESX 5.0 / 5.1                  |                    |                    |                    |
| vCPU Support (Min / Max)              | 1  | 2                  | 4                  | 8                  |
| Memory Support (Min / Max)            | 512 MB / 2 GB                                | 512 MB / 4 GB      | 512 MB / 8 GB      | 512 MB / 16 GB     |
| Network Interface Support (Min / Max) | 10   | 10                 | 10                 | 10                 |
| Storage Support (Min / Max)           | 50 MB / 1 TB                                 | 50 MB / 1 TB       | 50 MB / 1 TB       | 50 MB / 1 TB       |
| Throughput *                          | Hardware Dependent                           | Hardware Dependent | Hardware Dependent | Hardware Dependent |
| Max Connections *                     | Hardware Dependent                           | Hardware Dependent | Hardware Dependent | Hardware Dependent |
| Layer 7 RPS *                         | Hardware Dependent                           | Hardware Dependent | Hardware Dependent | Hardware Dependent |
| Management                            | HTTPS, SSH CLI, Direct Console DB9 CLI, SNMP |                    |                    |                    |

\* Indicative figures based on testing with licensed number of vCore CPU on host system running Intel Core i7-2600K CPU @ 3.4 GHz and maximum licensed RAM

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